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Jameco Part Number 202471

T-1 (f3mm)
STANDARD LED LAMPs MVL-301HR

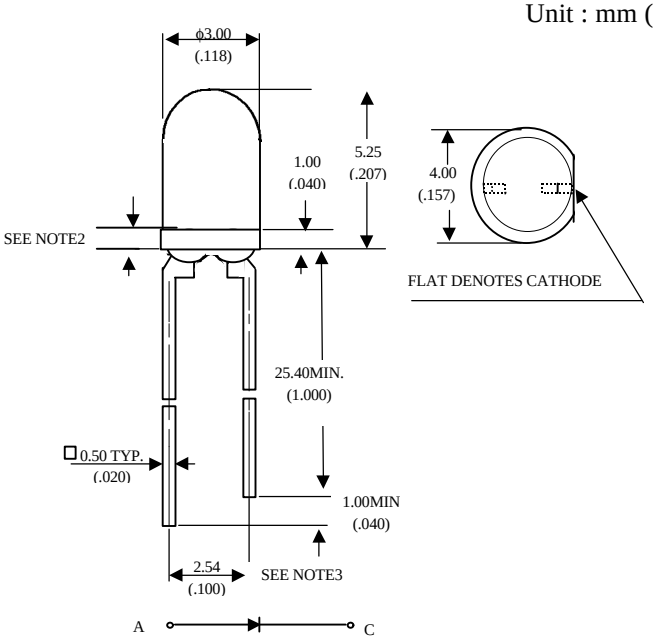
Description

The MVL-301HR LED lamp is made with Gallium Arsenide Phosphide on Gallium Aresnide red light emitting diode.

The package is T-1(ϕ 3mm) standard Hi-Eff red diffused plastic lens type.

Package Dimensions

Unit : mm (inches)



Features

- High Intensity
- Popular T-1 diameter package
- Selected minimum intensities
- General purpose leads
- Reliable and rugged

Absolute Maximum Ratings

@ T_A=25°C

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	P_{ad}	100	mW
Peak Forward Current (1/10 Duty Cycle 0.1 Width)	I_{pf}	120	mA
Continuous Forward Current	I_{af}	30	mA
Derating Linear From 25°C		0.5	mA/°C
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{opr}	-55°C to +100°C	
Storage Temperature Range	T_{stg}	-55°C to +100°C	
Lead Soldering Temperature (1.6 mm from body) for 3 second at 260°C			

Optical-Electrical Characteristics

@ T_A=25°C

Parameter	Test Conditions	Smybol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I_F=10mA	I_V	2.5	9	-	mcd
Forward Voltage	I_F=20mA	V_F	-	2	2.8	V
Reverse Current	V_R=5V	I_R	-	-	100	μA
Peak Wavelength	I_F=20mA	λ_p	-	640	-	nm
Spectral Line Half Width	I_F=20mA	$\Delta\lambda$	-	40	-	nm
Viewing Angle	I_F=20mA	$2\theta_{1/2}$	-	40	-	deg.

Typical Optical-Electrical Characteristic Curves

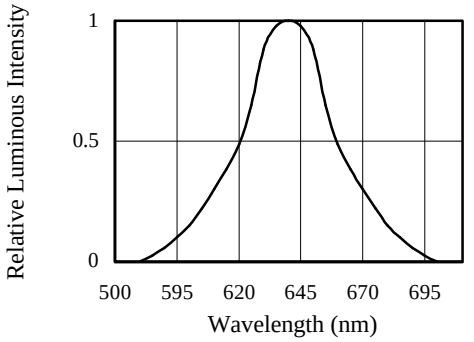


Fig 1. RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

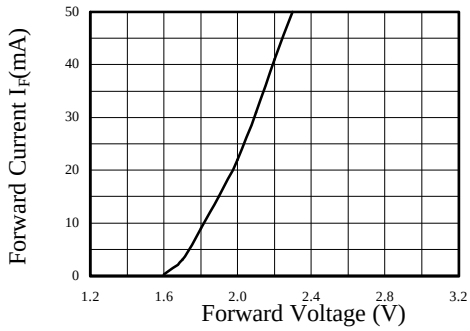


Fig 2. FORWARD CURRENT VS. FORWARD VOLTAGE

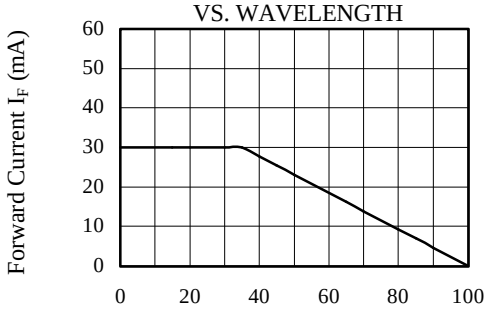


Fig 3. FORWARD CURRENT VS. AMBIENT TEMPERATURE

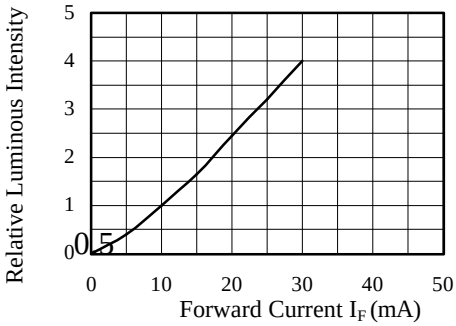


Fig 4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

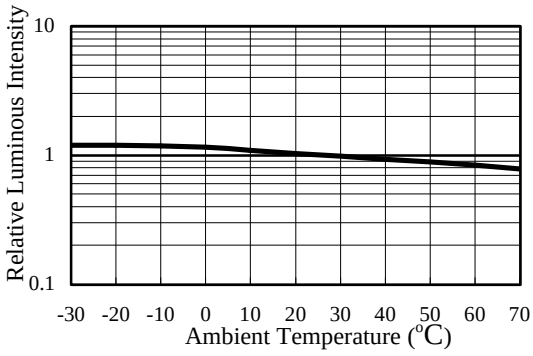


Fig 5. LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

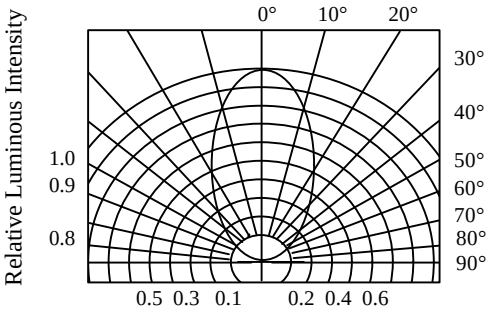


Fig 6. RADIATION DIAGRAM